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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,921	01/10/2006	Heidrun Steinhauser	DPQ-005US	8774
959 LAHIVE & CO	7590 12/10/2007 DCKFIELD, LLP		EXAMINER	
ONE POST OF	FFICE SQUARE		BREVAL, ELMITO	
BOSTON, MA 02109-2127			ART UNIT	PAPER NUMBER
			2879	
			MAIL DATE	DELIVERY MODE
			12/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	/ .				
	Application No.	Applicant(s)			
	10/539,921	STEINHAUSER, HEIDRUN			
Office Action Summary	Examiner	Art Unit			
	Elmito Breval	2879			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 10 J	lanuary 2006.				
3) Since this application is in condition for allowa					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•				
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-9</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on 10 January 2006 is/are	e: a)⊠ accepted or b)□ objecte	ed to by the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	ce Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
1. Certified copies of the priority documen	ts have been received.	•			
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea					
* See the attached detailed Office action for a list	t of the certified copies not receive	ved.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>09/12/2005</u>. 		Patent Application			

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DETAILED ACTION

Response to Amendment

The Amendment, filed on June 16, 2005, has been entered and acknowledged by the Examiner.

Claims 1-9 are pending in the instant application.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-6, 8, and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Oda et al., (hereinafter "Oda")(US. Pub: 2002/0063538).

Regarding claims 1, 8 and 9, Oda discloses (in at least figs. 7 and 8) a display device comprising a cathode ray tube, the cathode ray tube having an electron gun (7, fig. 7) comprising: a pre-focusing lens portion (G3, fig. 8) for generating a pre-focusing lens field, and a main lens portion ([0071]), for generating a main lens field (L2), characterized in that the electron gun(7) further comprises an additional grid (GM1, fig. 8), being positioned in proximity with said main lens portion, whereby a potential (B1) is arranged to be applied to said additional grid (GM1, fig. 8), for generating, together with one of the potentials Vfoc or Vdyn (Ec6), an additional lens field (L1) in proximity with said main lens field, whereby, in operation, the main

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lens field and the additional lens field is arranged to cooperate to form an effective main lens field (fig. 8; [0071], [0072]).

Regarding claim 3, Oda discloses a display device of claim 1, wherein said main lens portion comprises a distributed composed field lens, whereby the potential (Ec3) applied to said additional grid (fig. 8) is equal to a potential applied to an intermediate grid of the distributed composed field lens, wherein the voltage is within the range of 40% to 60% (fig. 8; [0056]).

Regarding claim 4, Oda discloses a display device as in any one of the claims 1-3, wherein the additional lens field (L1) generated by the additional grid (fig. 8) is arranged to an astigmatic lens (fig. 8).

Regarding claim 5, Oda discloses a display device as in claim 1, wherein said electron gun (7) further comprises a dynamic astigmatism and focus (fig. 8), and said additional grid (fig. 8) is arranged between the dynamic astigmatism and focus portion and the main lens portion (fig. 8).

Regarding claim 6, Oda discloses a display device as in claim 1, wherein said electron gun (7) further comprises a dynamic astigmatism and focus portion, and said additional grid (fig. 8) is arranged between the dynamic astigmatism and focus portion and the pre-focusing lens portion, in close proximity with the dynamic astigmatism and focus portion (fig. 8).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oda et al., (hereafter "Oda")(US. Pub: 2002/0063538) in view of Toujou (US. Pub: 2002/0130608).

Regarding claim 2, Oda discloses a display device as in claim 1, wherein a prefocusing lens portion comprises a first electrode (G1) and second electrode (G2), and providing a potential (Ec3) applied to said additional grid, but fails to disclose the potential of the additional grid is equal to the potential applied to said second electrode (G2), the potential being in the range of 350-1500V, preferably about 700V.

However, Toujou in the same field of endeavor teaches a cathode ray tube wherein the potential of the additional grid (electrode 5, fig. 1A) is equal to the potential applied to said second electrode, the potential being in the range of 350-1500V, preferably about 700V (paragraph [0036]) in order to improve the display quality of the device.

Given the teaching of Toujou, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the cathode ray tube of Oda with the additional grid potential as taught by Toujou in order to improve the display quality of the device.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Oda et al., (hereafter "Oda")(US. Pub: 2002/0063538) as applied to claim 1 above, and further in view of Uchida et al., (hereinafter "Uchida")(EP: 1014417).

Regarding claim 7, Oda discloses a display device as in claim 1, but fails to expressly disclose the electron gun (7) further comprising a dynamic beam forming section (DBF).

However, Uchida in the same field of endeavor teaches a cathode ray tube wherein the electron gun further comprises a dynamic beam forming section (fig. 1) in order to achieve high display resolution.

Given the teaching of Uchida, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the dynamic beam forming section as taught by Uchida into the cathode ray tube of Oda in order to achieve high display resolution.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elmito Breval whose telephone number is 571-270-3099. The examiner can normally be reached on M-F (8:30 AM-5:00 Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571)-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 25, 2007

Examiner Elmito Breval Mariceli Santiago Primary Examiner A) 2006